Application no.: 09/942,310 Docket no.: SGL-2019-UT

AMENDMENT

In the claims:

Please amend claims 17 and 18 as set forth hereafter in the complete listing of the claims.

Claims 1-16 (cancelled)

Claim 17 (currently amended): A method for predicting a ~~human's~~ Caucasian's capacity to metabolize a substrate of a CYP2D6 enzyme from the range of capacities in ~~humans~~ Caucasians, which comprises:

identifying a haplotype on each chromosome comprising ~~nucleotides at~~ three or more polymorphic sites in a CYP2D6 5' flanking region ~~in a strand~~ of a human nucleic acid, and

predicting the capacity from the haplotype on each chromosome ~~the nucleotides identified at the three or more polymorphic sites~~.

Claim 18 (currently amended): The method of claim 17, wherein the three or more polymorphic sites at positions in the CYP2D6 5' flanking region are selected from the group consisting of positions -1496, -1338 and -590; positions -1496, -912 and -590; positions -1496, -1338 and -652; positions -1496, -912 and -652; positions -1496, -1338, -912 and -652; positions -1496, -1338, -912 and -590; positions -1496, -912, -652 and -590; and positions -1496, -1338, -912, -652 and -590.

Claim 19 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, and -590.

Claim 20 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912 and -590.

Claim 21 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338 and -652.

Claim 22 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912 and -652.

Claim 23 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912 and -652.

Claim 24 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912 and -590.

Claim 25 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912, -652 and -590.

Claim 26 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912, -652 and -590.

Claim 27 (previously presented): The method of claim 17, wherein the range of capacities is ultra extensive, extensive, intermediate and poor.

Claim 28 (previously presented): The method of claim 17, wherein the range of capacities is between a metabolic ratio of less than 0.4 to a metabolic ratio of greater than 12.6.

Claim 29 (previously presented): The method of claim 17, wherein the range of capacities is between a metabolic ratio of 0.03 to 236.

Claim 30 (previously presented): The method of claim 17, which further comprises isolating the nucleic acid from the human.

Claim 31 (previously presented): The method of claim 30, wherein the nucleic acid is DNA.

Claim 32 (previously presented): The method of claim 31, wherein the DNA is single-stranded.